

15 MAY 1997 09:28:18

U.S. Patent & Trademark Office

P0001

*

* Welcome to MESSENGER (APS Text) at USPTO *

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* The USPTO production files are current through: *

* 13 May 1997 for U.S. Patent Text Data. *

* 13 May 1997 for U.S. Current Classification data. *

* 13 May 1997 for U.S. Patent Image Data. *

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* * PLEASE USE 305-9000 FOR NEW TELEPHONE NUMBER * *

-*****

* A new set of Messenger enhancements is available, *

* effective December 9, 1996. The new FOCUS command *

* allows you to display your search results in relevance- *

* ranked order. Enter FOCUS and the L-number you want *

* to view (e.g., FOCUS L5), and then display the resulting *

* L-number (e.g., D L6 1-12). *

* See also HELP FOCUS. *

* DISCLAIMER: *

* Neither the United States Government, nor any agency *

* thereof, nor any of their contractors, subcontractors or *

* employees make any warranty, expressed or implied, *

* including any warranty of marketability of fitness for a *

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* responsibility for any party's use, or the results of *

* such, of the data. *

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U.S. Patent & Trademark Office

P0002

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* Help Desk --> 703-305-9000 *

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* The Help Desk is staffed for APS support 7 days/week. *

* Monday through Friday: 6:30am - 9:00pm *

* Saturday, Sunday, Holidays: 8:30am - 5:00 pm *

*

* The Help Desk staff at this number will handle all APS *

* related questions. *

*

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* >>>>>>>>>> NEW SUNDAY HOURS !!! <<<<<<<<<<<<< *

*

* The APS is available: *

* 6:30am - 9:00pm Monday through Friday. *

* 7:30am - 5:00pm Saturday, Sunday, Holidays *

*

* APS is unavailable Thanksgiving Day, Christmas Day, *

* and New Year's Day. *

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FILE 'USPAT' ENTERED AT 09:28:18 ON 15 MAY 1997

* WELCOME TO THE *

* U. S. PATENT TEXT FILE *

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15 MAY 1997 09:28:18

U.S. Patent & Trademark Office

P0003

=> replica(p)reply

8570 REPLICA

4599 REPLY

L1 12 REPLICA(P)REPLY

=> d 1-12

1. 5,608,903, Mar. 4, 1997, Method and apparatus for moving subtrees in a distributed network directory; Ranjan Prasad, et al., 395/610, 187.01, 800 [IMAGE AVAILABLE]

2. 5,502,443, Mar. 26, 1996, Transponder for interactive data exchange between individually user-controlled computer-steered systems; Robert S. Newberry, 340/825, 825.21; 379/90, 99; 463/40 [IMAGE AVAILABLE]

3. 5,418,966, May 23, 1995, Updating replicated objects in a plurality of memory partitions; Hari H. Madduri, 395/726; 364/281.3, 281.8, DIG.1 [IMAGE AVAILABLE]

4. 5,142,279, Aug. 25, 1992, Acknowledge back paging system having the capability of matching variable length data messages to pager addresses; Leon Jasinski, et al., 340/825.44, 825.47; 379/63 [IMAGE AVAILABLE]

5. 4,882,579, Nov. 21, 1989, Code division multiplexed acknowledge back paging system; Kazimierz Siwiak, 340/825.44, 825.47; 370/342; 379/57 [IMAGE AVAILABLE]

6. 4,875,038, Oct. 17, 1989, Frequency division multiplexed acknowledge back paging system; Kazimierz Siwiak, et al., 340/825.44, 825.47; 370/313, 344, 496; 379/57 [IMAGE AVAILABLE]

7. 4,825,193, Apr. 25, 1989, Acknowledge back pager with adaptive variable transmitter output power; Kazimierz Siwiak, et al., 340/311.1, 502, 825.44, 825.47; 455/127 [IMAGE AVAILABLE]

8. 4,823,123, Apr. 18, 1989, Knowledge back pager with frequency control apparatus; Kazimierz Siwiak, 340/825.44, 311.1, 825.47; 455/31.1 [IMAGE AVAILABLE]

9. 4,616,852, Oct. 14, 1986, Money debit card application form and method of processing same; David J. Cash, 462/67; 283/56, 62, 117; 462/53, 903 [IMAGE AVAILABLE]

10. 4,395,712, Jul. 26, 1983, Linear detection of a DME signal; Edward J. O'Hare, 342/47, 92 [IMAGE AVAILABLE]

11. 4,074,263, Feb. 14, 1978, Code signal processing circuitry for IFF transponder beacon; Albert M. Sullivan, Jr., 342/45 [IMAGE AVAILABLE]

12. 3,816,828, Jun. 11, 1974, ECHO PROTECTION FOR TACAN/DME; Maurice L. Jezo, 342/51, 49 [IMAGE AVAILABLE]

=> electronic(p)mail

240086 ELECTRONIC

7623 MAIL

L2 1467 ELECTRONIC(P)MAIL

=> 12 and reply

4599 REPLY

L3 167 L2 AND REPLY

=> 13 and replica

8570 REPLICA

L4 3 L3 AND REPLICA

=> d 1-3

1. 5,608,903, Mar. 4, 1997, Method and apparatus for moving subtrees in a distributed network directory; Ranjan Prasad, et al., 395/610, 187.01, 800 [IMAGE AVAILABLE]

2. 5,581,753, Dec. 3, 1996, Method for providing session consistency guarantees; Douglas B. Terry, et al., 395/617; 364/285, 974.1, DIG.1, DIG.2; 395/480, 670 [IMAGE AVAILABLE]

3. 5,574,849, Nov. 12, 1996, Synchronized data transmission between elements of a processing system; David P. Sonnier, et al., 395/182.1 [IMAGE AVAILABLE]

=> d 2 ab

US PAT NO: 5,581,753 [IMAGE AVAILABLE]

L4: 2 of 3

ABSTRACT:

The present invention provides client-selected consistency guarantees to clients of a weakly consistent replicated database on a per "session" basis. The clients have access to utilities which allow the clients to, individually or collectively, define a "session" over which the selected guarantees are enforced. A "session" is broadly defined as a sequence of logically related Reads and Writes to the database. Sessions are initiated and terminated substantially independently of other sessions which may exist concurrently. Clients are allowed, however, to clone sessions and/or merge sessions with other clients. Clients select a minimum relevant subset of guarantees from among a set of pre-defined consistency guarantees, where "relevancy" is a client determined factor. At any given time, the system may be enforcing a number of different combinations of consistency guarantees. The guarantees ensure that all clients participating in a particular session view the database as having certain conditions of data consistency--the consistency of which is only provided with respect to the participants' Read and Write requests. Clients are allowed to downgrade their selected guarantees during the course of their sessions. One implementation of the present invention permits the selection of any one of four consistency guarantees.

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L1 12 REPLICA(P)REPLY

L2 1467 ELECTRONIC(P)MAIL

L3 167 L2 AND REPLY

L4 3 L3 AND REPLICA

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8570 REPLICA

L5 3 L3 AND REPLICA

=> d 1-3

1. 5,608,903, Mar. 4, 1997, Method and apparatus for moving subtrees in a distributed network directory; Ranjan Prasad, et al., 395/610, 187.01, 800 [IMAGE AVAILABLE]
2. 5,581,753, Dec. 3, 1996, Method for providing session consistency guarantees; Douglas B. Terry, et al., 395/617; 364/285, 974.1, DIG.1, DIG.2; 395/480, 670 [IMAGE AVAILABLE]
3. 5,574,849, Nov. 12, 1996, Synchronized data transmission between elements of a processing system; David P. Sonnier, et al., 395/182.1 [IMAGE AVAILABLE]

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L1 12 REPLICA(P)REPLY
L2 1467 ELECTRONIC(P)MAIL
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L4 3 L3 AND REPLICA
L5 3 L3 AND REPLICA

=> 12 and server

4263 SERVER
L6 366 L2 AND SERVER

=> 16 and forward###

375090 FORWARD###
L7 184 L6 AND FORWARD###

=> 17 and identifier

10698 IDENTIFIER
L8 86 L7 AND IDENTIFIER

=> d 1-20

1. 5,627,764, May 6, 1997, Automatic electronic messaging system with feedback and work flow administration; Jeffrey A. Schutzman, et al., 364/514R; 358/402 [IMAGE AVAILABLE]
2. 5,625,816, Apr. 29, 1997, Method and system for generating product performance history; Randy Burdick, et al., 395/614; 364/489, 571.02; 379/93, 112; 395/210, 228 [IMAGE AVAILABLE]
3. 5,621,874, Apr. 15, 1997, Three dimensional document representation using strands; Peter Lucas, et al., 395/761, 326 [IMAGE AVAILABLE]
4. 5,621,727, Apr. 15, 1997, System and method for private addressing plans using community addressing; Gregory M. Vaudreuil, 379/225, 231, 234 [IMAGE AVAILABLE]
5. 5,621,456, Apr. 15, 1997, Methods and apparatus for audio-visual interface for the display of multiple program categories; Fabrice Florin, et al., 348/7, 12, 13; 455/4.2, 5.1 [IMAGE AVAILABLE]
6. 5,619,648, Apr. 8, 1997, Message filtering techniques; Leonard M. Canale, et al., 395/200.01, 680 [IMAGE AVAILABLE]

7. 5,613,134, Mar. 18, 1997, Document display system using documents having ephemeral attributes for sharing information regarding the location of the display of each document on multiple display devices; Peter Lucus, et al., 395/788, 329 [IMAGE AVAILABLE]
8. 5,613,012, Mar. 18, 1997, Tokenless identification system for authorization of electronic transactions and electronic transmissions; Ned Hoffman, et al., 382/115; 235/380; 902/3 [IMAGE AVAILABLE]
9. 5,606,609, Feb. 25, 1997, Electronic document verification system and method; Peter B. Houser, et al., 380/4, 25 [IMAGE AVAILABLE]
10. 5,603,031, Feb. 11, 1997, System and method for distributed computation based upon the movement, execution, and interaction of processes in a network; James E. White, et al., 395/683 [IMAGE AVAILABLE]
11. 5,600,844, Feb. 4, 1997, Single chip integrated circuit system architecture for document installation set computing; Venson M. Shaw, et al., 395/800; 348/384, 400, 441; 364/239.3, 274.2, DIG.1; 395/507 [IMAGE AVAILABLE]
12. 5,600,833, Feb. 4, 1997, Attribute portion based document retrieval system with system query language interface; Jeffrey A. Senn, et al., 395/601, 500 [IMAGE AVAILABLE]
13. 5,596,702, Jan. 21, 1997, Method and system for dynamically sharing user interface displays among a plurality of application program; Joan E. Stucka, et al., 395/340, 326, 356 [IMAGE AVAILABLE]
14. 5,594,509, Jan. 14, 1997, Method and apparatus for audio-visual interface for the display of multiple levels of information on a display; Fabrice Florin, et al., 348/731, 565, 705, 734, 906 [IMAGE AVAILABLE]
15. 5,592,375, Jan. 7, 1997, Computer-assisted system for interactively brokering goods or services between buyers and sellers; Bardwell C. Salmon, et al., 395/207, 209, 222, 605 [IMAGE AVAILABLE]
16. 5,590,133, Dec. 31, 1996, Apparatuses and mobile stations for providing packet data communication in digital TDMA cellular systems; Lars Billstrom, et al., 370/349, 332, 337, 338, 403; 379/60; 455/33.2 [IMAGE AVAILABLE]
17. 5,584,025, Dec. 10, 1996, Apparatus and method for interactive communication for tracking and viewing data; Ronald D. Keithley, et al., 395/615; 364/225.4, DIG.1 [IMAGE AVAILABLE]
18. 5,583,560, Dec. 10, 1996, Method and apparatus for audio-visual interface for the selective display of listing information on a display; Fabrice Florin, et al., 348/7, 12, 13; 455/4.2, 5.1 [IMAGE AVAILABLE]
19. 5,574,849, Nov. 12, 1996, Synchronized data transmission between elements of a processing system; David P. Sonnier, et al., 395/182.1 [IMAGE AVAILABLE]
20. 5,572,581, Nov. 5, 1996, Method and apparatus for delivering calling services; Sohail Sattar, et al., 379/201, 207, 211, 212, 229 [IMAGE AVAILABLE]

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U.S. Patent & Trademark Office

P0003

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 1 5040141/PN
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 467577 WIDE
 788313 AREA
 122677 NETWORK
 680 WIDE AREA NETWORK
 (WIDE(W)AREA(W)NETWORK)
L2 0 5040141/PN AND WIDE AREA NETWORK

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L4 0 4994985/PN AND WIDE AREA NETWORK

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=> electronic mail and wide area network
 240086 ELECTRONIC
 7623 MAIL
 977 ELECTRONIC MAIL
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 467577 WIDE
 788313 AREA
 122677 NETWORK
 680 WIDE AREA NETWORK
 (WIDE(W)AREA(W)NETWORK)
L6 53 ELECTRONIC MAIL AND WIDE AREA NETWORK

=> 16 and reply
 4599 REPLY
L7 14 L6 AND REPLY

=> d 1-14

1. 5,617,539, Apr. 1, 1997, Multimedia collaboration system with separate data network and A/V network controlled by information transmitting on the data network; Lester F. Ludwig, et al., 395/200.02; 348/12; 370/260; 395/200.04 [IMAGE AVAILABLE]

2. 5,608,903, Mar. 4, 1997, Method and apparatus for moving subtrees in a distributed network directory; Ranjan Prasad, et al., 395/610, 187.01, 800 [IMAGE AVAILABLE]
3. 5,603,031, Feb. 11, 1997, System and method for distributed computation based upon the movement, execution, and interaction of processes in a network; James E. White, et al., 395/683 [IMAGE AVAILABLE]
4. 5,557,798, Sep. 17, 1996, Apparatus and method for providing decoupling of data exchange details for providing high performance communication between software processes; Marion D. Skeen, et al., 395/235; 364/280, 281.3, 284, 284.3, DIG.1; 395/200.01, 682 [IMAGE AVAILABLE]
5. 5,557,678, Sep. 17, 1996, System and method for centralized session key distribution, privacy enhanced messaging and information distribution using a split private key public cryptosystem; Ravi Ganesan, 380/21, 30 [IMAGE AVAILABLE]
6. 5,557,659, Sep. 17, 1996, Electronic mail system having integrated voice messages; Henry C. A. Hyde-Thomson, 379/88, 67, 233 [IMAGE AVAILABLE]
7. 5,535,276, Jul. 9, 1996, Yaksha, an improved system and method for securing communications using split private key asymmetric cryptography; Ravi Ganesan, 380/25, 4, 21, 23, 46, 49 [IMAGE AVAILABLE]
8. 5,530,861, Jun. 25, 1996, Process enactment and tool integration via a task oriented paradigm; John R. Diamant, et al., 395/208; 364/281.3, DIG.1; 395/209, 601 [IMAGE AVAILABLE]
9. 5,502,766, Mar. 26, 1996, Data enclave and trusted path system; William E. Boebert, et al., 380/25, 4, 23, 49 [IMAGE AVAILABLE]
10. 5,499,297, Mar. 12, 1996, System and method for trusted path communications; William E. Boebert, 380/23, 21, 25, 49 [IMAGE AVAILABLE]
11. 5,276,735, Jan. 4, 1994, Data enclave and trusted path system; William E. Boebert, et al., 380/21, 4, 25, 49 [IMAGE AVAILABLE]
12. 5,257,369, Oct. 26, 1993, Apparatus and method for providing decoupling of data exchange details for providing high performance communication between software processes; Marion D. Skeen, et al., 395/680; 364/239.9, 240.8, 240.9, 284, DIG.1; 395/200.01 [IMAGE AVAILABLE]
13. 5,115,326, May 19, 1992, Method of encoding an E-mail address in a fax message and routing the fax message to a destination on a network; Ken L. Burgess, et al., 358/440, 402, 407 [IMAGE AVAILABLE]
14. 5,109,384, Apr. 28, 1992, Guaranteed reliable broadcast network; Lawrence C. N. Tseung, 371/32; 340/825.15; 395/182.02 [IMAGE AVAILABLE]

=> d 1 ab

US PAT NO: 5,617,539 [IMAGE AVAILABLE]

L7: 1 of 14

ABSTRACT:

A multimedia collaboration system that integrates separate real-time and asynchronous networks--the former for real-time audio and video, and the latter for control signals and textual, graphical and other data--in a manner that is interoperable across different computer and network operating system

platforms and which closely approximates the experience of face-to-face collaboration, while liberating the participants from the limitations of time and distance. These capabilities are achieved by exploiting a variety of hardware, software and networking technologies in a manner that preserves the quality and integrity of audio/video/data and other multimedia information, even after wide area transmission, and at a significantly reduced networking cost as compared to what would be required by presently known approaches. The system architecture is readily scalable to the largest enterprise network environments. It accommodates differing levels of collaborative capabilities available to individual users and permits high-quality audio and video capabilities to be readily superimposed onto existing personal computers and workstations and their interconnecting LANs and WANs. In a particular preferred embodiment, a plurality of geographically dispersed multimedia LANs are interconnected by a WAN. The demands made on the WAN are significantly reduced by employing multi-hopping techniques, including dynamically avoiding the unnecessary decompression of data at intermediate hops, and exploiting video mosaicing, cut-and-paste and audio mixing technologies so that significantly fewer wide area transmission paths are required while maintaining the high quality of the transmitted audio/video.

=> d 4 ab

US PAT NO: 5,557,798 [IMAGE AVAILABLE]

L7: 4 of 14

ABSTRACT:

A communication interface for decoupling one software application from another software application such communications between applications are facilitated and applications may be developed in modularized fashion. The communication interface is comprised of two libraries of programs. One library manages self-describing forms which contain actual data to be exchanged as well as type information regarding data format and class definition that contain semantic information. Another library manages communications and includes a subject mapper to receive subscription requests regarding a particular subject and map them to particular communication disciplines and to particular services supplying this information. A number of communication disciplines also cooperate with the subject mapper or directly with client applications to manage communications with various other applications using the communication protocols used by those other applications.

=> d 13 ab

US PAT NO: 5,115,326 [IMAGE AVAILABLE]

L7: 13 of 14

ABSTRACT:

A fax message transmitted by a facsimile transmitter includes bar coded headers in its first page. At least one of these headers contains the name of an addressee that is also a user on a network. A fax server receiving the incoming fax message inspects the first page of the incoming facsimile to locate the bar coded headers. If a TO: header is found it is used to determine the corresponding E-mail address, and the fax is automatically routed as E-mail on the network to the addressee. Any other headers, such as a FROM: or SUBJECT: header have their bar coded content converted to ASCII and attached as ASCII strings to the first page for easy inspection. An asymmetrical nature of the bar code used allows the fax server to determine which of a left-to-right or right-to-left scanning direction produces valid bar code. This in turn indicates whether the headers for the first page are right side up or upside down. By implication, this determines the orientation for the entire fax document. If the document is found to be upside down the fax server erects the document before mailing it to the addressee. The fax

server or some other application running on a computer served by the network may be the addressee, and if the incoming fax is a request for information (whether by further bar code or check marks in predefined fields) the information may simply be sent by return fax to the sender, perhaps as part of the same phone call.

=> electronic mail and wireless

240086 ELECTRONIC

7623 MAIL

977 ELECTRONIC MAIL

(ELECTRONIC(W)MAIL)

7055 WIRELESS

L8 128 ELECTRONIC MAIL AND WIRELESS

=> d 1-20

1. 5,630,081, May 13, 1997, Connection resource manager displaying link-status information using a traffic light iconic representation; Steve G. Rybicki, et al., 395/348, 349 [IMAGE AVAILABLE]

2. 5,630,079, May 13, 1997, Document job key to tailor multifunctional user interfaces; Denise C. McLaughlin, 395/335, 333, 339, 347, 761 [IMAGE AVAILABLE]

3. 5,626,144, May 6, 1997, System for monitoring and reporting medical measurements; Christopher A. Tacklind, et al., 128/725, 716 [IMAGE AVAILABLE]

4. 5,623,589, Apr. 22, 1997, Method and apparatus for incrementally browsing levels of stories; Bradford H. Needham, et al., 395/356, 340, 352, 806 [IMAGE AVAILABLE]

5. 5,621,798, Apr. 15, 1997, Method and apparatus for cooperative messaging; David W. Aucsmith, 380/25; 340/825.07, 825.52; 364/242.95, DIG.1 [IMAGE AVAILABLE]

6. 5,621,456, Apr. 15, 1997, Methods and apparatus for audio-visual interface for the display of multiple program categories; Fabrice Florin, et al., 348/7, 12, 13; 455/4.2, 5.1 [IMAGE AVAILABLE]

7. 5,619,576, Apr. 8, 1997, Variable-key cryptography system; William Y. Shaw, 380/44, 21, 28, 49 [IMAGE AVAILABLE]

8. 5,617,539, Apr. 1, 1997, Multimedia collaboration system with separate data network and A/V network controlled by information transmitting on the data network; Lester F. Ludwig, et al., 395/200.02; 348/12; 370/260; 395/200.04 [IMAGE AVAILABLE]

9. 5,613,012, Mar. 18, 1997, Tokenless identification system for authorization of electronic transactions and electronic transmissions; Ned Hoffman, et al., 382/115; 235/380; 902/3 [IMAGE AVAILABLE]

10. 5,611,055, Mar. 11, 1997, Method and apparatus for implementing a PCMCIA auxiliary port connector for selectively communicating with peripheral devices; Baldev Krishan, et al., 395/281, 309, 822, 882 [IMAGE AVAILABLE]

11. 5,611,050, Mar. 11, 1997, Method for selectively performing event on computer controlled device whose location and allowable operation is consistent with the contextual and locational attributes of the event; Marvin M. Theimer, et al., 395/200.09; 340/825.49; 395/826 [IMAGE AVAILABLE]

12. 5,606,361, Feb. 25, 1997, Videophone interactive mailbox facility system and method of processing information; John Davidsohn, et al., 348/14; 364/226, DIG.1; 379/96 [IMAGE AVAILABLE]
13. 5,604,803, Feb. 18, 1997, Method and apparatus for secure remote authentication in a public network; Ashar Aziz, 380/25, 21 [IMAGE AVAILABLE]
14. 5,604,788, Feb. 18, 1997, Wireless messaging system with electronic mail replication; Richard J. Tett, 379/58, 57, 96 [IMAGE AVAILABLE]
15. 5,603,077, Feb. 11, 1997, Satellite system and method for remote control of a satellite signal receiver; Thomas A. Muckle, et al., 455/3.2, 6.3, 12.1, 70 [IMAGE AVAILABLE]
16. 5,603,054, Feb. 11, 1997, Method for triggering selected machine event when the triggering properties of the system are met and the triggering conditions of an identified user are perceived; Marvin M. Theimer, et al., 395/826; 340/825.49; 395/200.09 [IMAGE AVAILABLE]
17. 5,603,031, Feb. 11, 1997, System and method for distributed computation based upon the movement, execution, and interaction of processes in a network; James E. White, et al., 395/683 [IMAGE AVAILABLE]
18. 5,600,844, Feb. 4, 1997, Single chip integrated circuit system architecture for document installation set computing; Venson M. Shaw, et al., 395/800; 348/384, 400, 441; 364/239.3, 274.2, DIG.1; 395/507 [IMAGE AVAILABLE]
19. 5,600,704, Feb. 4, 1997, Systems and methods for prioritized routing of telephone calls to a subscriber; Bjorn G. D. Ahlberg, et al., 379/58, 201, 211 [IMAGE AVAILABLE]
20. 5,596,318, Jan. 21, 1997, Method for operating a two-way messaging system to extend battery life; Edward E. Mitchell, 340/825.44, 825.47; 370/394; 379/58; 455/53.1 [IMAGE AVAILABLE]

=> d 14 ab

US PAT NO: 5,604,788 [IMAGE AVAILABLE]

L8: 14 of 128

ABSTRACT:

A wireless messaging system (10) is provided that comprises a wireless message distribution system (12) which receives wireless messages from telephones (14), computer message entry program (16) or telephone-assisted service terminals (18). The wireless messages are sent through a radio frequency transmission (20) to users (22). In addition, the wireless messages are replicated and sent to a wireless message gateway server (24). The wireless message gateway server (24) assembles electronic mail messages including the wireless message and transmits the electronic mail messages to electronic mail networks (26), (28), or (30) such that

the user (22) may access his wireless messages through his electronic mailbox within a customer electronic mail system (32).

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[illegible]

=> d 1-43

1. 5,625,670, Apr. 29, 1997, Electronic mail system with RF communications to mobile processors; Thomas J. Campana, Jr., et al., 379/58, 57, 93, 96 [IMAGE AVAILABLE]
2. 5,613,108, Mar. 18, 1997, Electronic mail processing system and electronic mail processing method; Takashi Morikawa, 395/616; 379/93 [IMAGE AVAILABLE]
3. 5,604,788, Feb. 18, 1997, Wireless messaging system with electronic mail replication; Richard J. Tett, 379/58, 57, 96 [IMAGE AVAILABLE]
4. 5,590,178, Dec. 31, 1996, Electronic mail system linked with telephone; Masahiko Murakami, et al., 379/96; 348/15; 379/88, 89 [IMAGE AVAILABLE]
5. 5,557,736, Sep. 17, 1996, Computer system and job transfer method using electronic mail system; Toshio Hirose, et al., 395/182.02, 183.17, 185.09, 185.1 [IMAGE AVAILABLE]
6. 5,557,723, Sep. 17, 1996, Method and system for customizing forms in an electronic mail system; Nick Holt, et al., 395/767; 358/402; 395/333, 768 [IMAGE AVAILABLE]
7. 5,557,659, Sep. 17, 1996, Electronic mail system having integrated voice messages; Henry C. A. Hyde-Thomson, 379/88, 67, 233 [IMAGE AVAILABLE]
8. 5,548,753, Aug. 20, 1996, Automatic electronic mail notification of database events; Steven A. Linstead, et al., 395/601 [IMAGE AVAILABLE]
9. 5,537,543, Jul. 16, 1996, Electronic mail drive type computer system and file operation method having a mail terminal operating independently of a computer system connected thereto; Tutomo Itoh, et al., 395/185.01, 800 [IMAGE AVAILABLE]
10. 5,530,740, Jun. 25, 1996, System and method for integrating voice, facsimile and electronic mail data through a personal computer; Roberto Irribarren, et al., 379/89, 67, 94, 100, 212 [IMAGE AVAILABLE]
11. 5,508,817, Apr. 16, 1996, Electronic mail accounting system; Toshio Kunigami, 358/402, 400, 407; 395/234 [IMAGE AVAILABLE]
12. 5,504,897, Apr. 2, 1996, Method and apparatus for processing electronic mail in parallel; Stevens Gans, et al., 395/615; 364/281.3, 284.3, DIG.1; 395/672 [IMAGE AVAILABLE]
13. 5,487,100, Jan. 23, 1996, Electronic mail message delivery system; John R. Kane, 379/57; 340/311.1, 825.07, 825.15, 825.17, 825.44; 379/96 [IMAGE AVAILABLE]
14. 5,483,352, Jan. 9, 1996, Computer able to link electronic mail functions with telephone functions; Noriyuki Fukuyama, et al., 358/402, 440, 444; 379/93, 355 [IMAGE AVAILABLE]
15. 5,479,472, Dec. 26, 1995, System for interconnecting electronic mail systems by RF communications and method of operation thereof; Thomas J.

Campana, Jr., et al., 379/58, 93 [IMAGE AVAILABLE]

16. 5,473,143, Dec. 5, 1995, ATM/POS based electronic mail system; Hugo Vak, et al., 235/380, 375, 379; 902/24 [IMAGE AVAILABLE]

17. 5,438,660, Aug. 1, 1995, Method and apparatus for inputting electronic mail; Raymond E.

Lee, et al., 395/345, 349, 961 [IMAGE AVAILABLE]

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